8800145

HHE UNITHED SHAYIES OF AMIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Northrup King Co.

Caliereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OF ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or using it in producing a hybrid or different variety therefrom, to the extent provided by the Plant Variety Protection Act stat. 1542, as amended, 7 u.s.c. 2121 et seq.)

SOYBEAN

'S26-06'

In Essimony Wenercot, I have hexeunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D. C. this 30th day of November in the year of our Lord one thousand nine hundred and eighty-eight.

Allosh:

Kenneth Flerands Commissioner

Plant Variety Protection Office Agricultural Marketing Service

Jula of ?

Secretary of Agriculture

					L EXPIRES 4-30-86
U.S. DEPARTMI AGRICULTURAL	Appl	FORM APPROVED: OMB NO. 0881-0066 Application is required in order to determine if a plant variety protection certificate is so			
APPLICATION FOR PLANT VA	RIETY PROTEC	TION CERTIFICATE	held		21). Information is contificate is issued
1. NAME OF APPLICANT(S)	I	. TEMPORARY DESIGNATIO	v 3. v	ARIETY NAME	
Northrup King Co.		X8726, W207628		S26-06	
4. ADDRESS (Street and No. or R.F.D. No., City,	State and Zip Codel	S. PHONE (Include area code)	╁	FOR OFFICIAL	USE ONLY
			PVP	O NUMBER	
P. O. Box 959 Minneapolis, MN 55440		612-593-7333		8800	145
6. GENUS AND SPECIES NAME	7. FAMILY NAM	E (Botanical)	7,	PATE	and
Glycine Max	Legumino	sae	TIME 1:30 \\		788]am. [26pm.
8. KIND NAME	9. 0	ATE OF DETERMINATION		AMOUNT FOR	FILING
Soybean	1	March, 1987	RECEIVED	\$ 1800 00 May 5,	1988
10. IF THE APPLICANT NAMED IS NOT A "PER partnership, association, etc.) Corporation	SON," GIVE FORM O	F ORGANIZATION (Corporation	FEES RE	S ZOO DE	CERTIFICATE
<u> </u>	·		1	Oct . 24	
11. IF INCORPORATED, GIVE STATE OF INCOI	RPORATION		12. (DATE OF INCOR	PORATION
Delaware 13. NAME AND ADDRESS OF APPLICANT REP	956511747111F101 15	AND TO SPONE IN THE LAS	154716	1986	ALL PAPERS
Robert W. Romig	RESENTATIVE(S), IF	ANY, TO SERVE IN THIS APP	. CATIO	N AND RECEIVE	ALLFARENS
Northrup King Co.					•
P. O. Box 959		ı			
		PHONE (Include		<i>l</i> : 612−593-	7205
Minneapolis, MN 55440	· · · · · · · · · · · · · · · · · · ·			7. 012-393	-7303
14 CHECK APPROPRIATE BOX FOR EACH ATT				- 4 1	
a. A Exhibit A Origin and Breeding History	of the Variety (See S	ction 32 of the Plant Vanety 1	TOLECTIO	" ACL)	
b. Exhibit B. Novelty Statement.					•
c. Exhibit C, Objective Description of Var	riety (Request form fr	om Plant Variety Protection Oj	fice.)	*	
d. 🗵 Exhibit D. Additional Description of V	ariety.		•		
e. 🗵 Exhibit E, Statement of the Basis of Ap					
5. DOES THE APPLICANT(S) SPECIFY THAT SE SEED? (See Section &J(a) of the Plant Variety I	EED OF THIS VARIES Protection Act.)	Y BE SOLD BY VARIETY NA			F CERTIFIED
6. DOES THE APPLICANT(S) SPECIFY THAT TH	HIS VARIETY BE	17. IF "YES" TO ITEM 16	WHICH		
LIMITED AS TO NUMBER OF GENERATION		BEYOND BREEDERS			Certified
Yas No		Foundation		egistered	
B. DID THE APPLICANT(S) PREVIOUSLY FIL	E POR PROTECTION	YOF THE VARIETY IN THE	U,5,r		(f "Yes," give date
	•	•		X No	
9. HAS THE VARIETY BEEN RELEASED, OFF	ERED FOR SALE, O	R MARKETED IN THE U.S. C	ROTHE	A COUNTRIES	7
	·			Y ++ !	(If "Yes," give nam ountries and dates)
	•			X No	·
The applicant(s) declare(s) that a viable san plenished upon request in accordance with	such regulations as	may be applicable.	•		
The undersigned applicant(s) is (are) the own distinct, uniform, and stable as required in Variety Protection Act.	Section 41, and is e	stitled to protection under t	he provi	isions of Section	at the variety is 142 of the Plant
Applicant(s) is (are) informed that false rep	resentation herein c	an jeopardize protection and	l result :	in penalties.	
IGNATURE OF APPLICANT	• .		D.	ATE	000
Mover W. Kor	mag			May 3, 19	708
IGNATURE OF APPLICANT	- []		Į D.	ATE	

EXHIBIT A

Origin and Breeding History of the Variety

- 1979-81 The Northrup King research group at Washington, Iowa made the cross 'S18-84' and 'Matsoy' and advanced the population to F₆. In September, 1981, we selected 100 early plants and threshed them individually.
- We grew each of the 100 plant selection in an F₇ progeny row.

 One of these, numbered W207628, was selected on the basis of agronomic appearance to be tested in a preliminary yield trial. This line was subsequently named S26-06.
- 1983-85 We tested S26-06 in replicated yield trials at several midwestern locations and found it to yield well in comparison to other Maturity Group II varieties. We identified and confirmed the descriptive characteristics white flowers, grey pubescence, tan pods, buff hilum, and shiny seed coat luster. We tested S26-06 for reaction to Phytophthora megasperma by inoculation of detached cotyledons and found it to be resistant to Races 1, 2, 3, and 4 and susceptible to Race 7. This reaction is consistent with that expected for the Rps 3 resistance gene. We tested it for resistance to iron-deficiency chlorosis on calcareous soil in Northwest Iowa and found it to be susceptible.

In 1985 we initiated seed increase from 500 grams of carefully hand rogued seed. We removed all plants not conforming to the variety description by roguing the increase block several times. Growth and maturity were uniform.

1986-87 - We continued to test S26-06 in advanced yield trials to confirm descriptive characteristics and performance.

We grew Breeder Seed of S26-06 in 1986 from the initial increase made in 1985. The field was rogued several times. We produced Foundation Seed of S26-06 in 1987. The Iowa Crop Improvement Association inspected the production field and found it to meet the standards for Foundation Seed.

S26-06 is a stable and uniform soybean variety. We have observed no variants in five years of testing and three years of seed increase other than minor, environmentally induced variation normally encountered in a soybean variety.

We will maintain varietal purity by use of progeny rows as needed.

EXHIBIT B

Novelty Statement for the Variety

Soybean variety S26-06 is most similar to S27-10. It can be differentiated from S27-10 on the basis of flower color. S26-06 has white flowers; S27-10 has purple flowers.

EXHIBIT C (Soybean)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max 1.)

SOYB	EAN (Glycine max L.)	
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Northrup King Co.	X8726, W207628	S26-06
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Co	ode)	FOR OFFICIAL USE ONLY
P. O. Box 959		PVPO NUMBER
Minneapolis, MN 55440		8800145
Choose the appropriate response which characterizes the v in your answer is fewer than the number of boxes provided Starred characters ** are considered fundamental to an ade when information is available.	l, place a zero in the first box w	hen number is 9 or less (e.g., 0 9).
1. SEED SHAPE:		
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	2 = Spherical Flattened (4 = Elongate Flattened (I	L/W ratio > 1.2; L/T ratio = < 1.2) _/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)		
1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (S	Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
2 1 = Duil ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebs		en general Maria Maria Maria de la compania de la c La compania de la co
4. SEED SIZE: (Mature Seed)		·
1 8 Grams per 100 seeds	e gan er om av skriger er om er en skriger om er	enter sono del contra del come del contra de Contra del contra del
5. HILUM COLOR: (Mature Seed)		· · · · · · · · · · · · · · · · · · ·
1 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfect Black	k 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		· · · · · · · · · · · · · · · · · · ·
1 = Yellow 2 = Green	en e	and the second of the control of the
7. SEED PROTEIN PEROXIDASE ACTIVITY:		
1 = Low 2 = High		
8. SEED PROTEIN ELECTROPHORETIC BAND:		
· ···		
2 = Type B (SP1 ^b)		
9. HYPOCOTYL COLOR:		
1 = Green only ('Evans'; 'Davis') 2 = Green with 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson';	n bronze band below cotyledons ('W 'Coker Hampton 266A')	oodworth'; 'Tracy')
D. LEAFLET SHAPE:		
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)	

FORM LMGS-470-57 (6-83)

(Edition of 2-82 is obsolete.)

					w Š.
11. LE	AFLET SIZE:	· · · · · · · · · · · · · · · · · · ·			
· [1 = Small ('Amsoy 71'; 'A5312')	2 = Medium ('Corsoy 7	'9'; 'Gasoy 17')		
L. L	3 = Large ('Crawford'; 'Tracy')	en e	e e e e e e e e e e e e e e e e e e e	e de la companya de l	
				·	
12. LE	AF COLOR:	international design of the second section of the section of the second section of the s		4 Y 4 2	•
Γ	1 = Light Green ('Weber'; 'York')	2 = Medium Green ('Co	orsoy 79'; 'Braxton')		
· L	3 = Dark Green ('Gnome'; 'Tracy')	and the second second second			
	OWER COLOR:				
					
programme and the second	1 = White 2 = Purple	3 = White with purple thro	at	the second second	· · · · · · · · · · · · ·
14 PO	D COLOR:				
. 14. 10		• .			
	1 = Tan 2 = Brown	3 = Black	and the second of the second o		e e e e e e e e e e e e e
15. PL	ANT PUBESCENCE COLOR:		·		·
				• .	•
	1 = Gray 2 = Brown (Tawny	the state of the s	er en volu e	A series of the series	Same of the Same o
16. PL/	ANT TYPES:	NAME OF THE PARTY			
2	1 = Slender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intermediate ('Amc	or; Braxton)	A 19	**
	and the same				
17. PLA	NT HABIT:				
	1 = Determinate ('Gnome'; 'Braxton')	2 = Semi-Determinate (Will'	Land Control of the C	
[3	3 = Indeterminate ('Nebsoy'; 'Improved	Pelican')	******		
18. MA	TURITY GROUP:	erformer Le vicker - Der Monnerformer (de die vereine de die vereine de die vereine de die vereine de die de de de de d Le vicker - Der Monnerformer (de die vereine de die vereine de die vereine de d	and the second of the second o	. And a second war are write of a second	and the second
		1.44.49 4 = I	6 = III ⁻¹⁵ () 7 = I	V 8 = V	•
	9 = VI 10 = VII 11 = V	7III 12 = IX 13 = X			
40 010		er en skale for en		and the second s	and the second ways was
19. DIS	EASE REACTION: (Enter 0 = Not Tested; 1	= Susceptible; 2 = Resistant)	** * *		
BA	CTERIAL DISEASES:				
* [Bacterial Pustule (Xanthomonas phaseola	i var. sojensis)	•	•	
* 1	Bacterial Blight (Pseudomonas glycinea)			en e	
* L	Wildfire (Pseudomonas tabaci)	en de la companya de La companya de la co	en e		
FUN	IGAL DISEASES:				en e
★ 1	Brown Spot (Septoria glycines)		i de la companya de l		with a little with
	Frogeye Leaf Spot (Cercospora sojina)	•		en e	
⋆ Γ		Language of A. C.			
		Race 3 Race 4	Race 5	Other (Specify)	e y Ministração de trati
<u> </u>	Target Spot (Corynespora cassiicola)	·	The second secon		
	Downy Mildew (Peronospora trifoliorum	var. <i>manshurica)</i>		A	e est
<u></u>	Powdery Mildew (Microsphaera diffusa)	n de en 1915 de la 1940 de 1960 de 1960. Onde Maria de la 1960 de 1960		•	
┸╏	<u>.</u>	and the second	e de la companya de		
지 📜	Brown Stem Rot (Cephalosporium gregation)	en a distribution de la company			
L	Stem Canker (Diaporthe phaseolorum var	. caulivora)			

19. DISE	ASE REACT	ON: (Enter 0 = Not	Tested; 1 = Susceptibl	e; 2 = Resistant)	(Continued)	de weer east	1 - 1 to 1 mm - 19 mm	11 to 12 to 150	The second second is the second of the second secon
FUI	NGAL DISE	ASES: (Continued)							
* 1	Pod and S	d and Stem Blight <i>(Diaporthe phaseolorum</i> var; <i>sojae)</i>							
1	Purple See	ed Stain (Cercospora I	(ikuchii)						
	Rhizocton	ia Root Rot <i>(Rhizoci</i>	tonia solani)						
	Phytophth	ora Rot (Phytophtho	ra megasperma var. so	jae)					
★ 2	Race 1	2 Race 2	2 Race 3	2 Race 4	2 Race 5	1	Race 6	1 Ra	ace 7
2	Race 8	2 Race 9	Other (Speci	fy)					·
VIR	AL DISEASE	s:							
1	Bud Blight	(Tobacco Ringspot V	'irus)						
	Yellow Mo	saic (Bean Yellow Mo	saic Virus)		•				
*	Cowpea Mo	osaic (Cowpea Chloro	tic Virus)						
	Pod Mottle	(Bean Pod Mottle Vi	rus)			-			
* 1	Seed Mottle	(Soybean Mosaic Vi	rus)						
NEM	ATODE DISE	EASES:					-		
•	Soybean Cy	st Nematode (Hetero	dera glycines)	·					
* 1	Race 1	1 Race 2	1 Race 3	1 Race 4	Other (Specify)			
	Lance Nema	ntode (Hoplolaimus C	olombus)						
* 🗍	Southern Ro	oot Knot Nematode (Meloidogyne incognita	a)	1				
*	Northern Ro	ot Knot Nematode (Meloidogyne Hapla)		3				
	Peanut Root	Knot Nematode (Me	loidogyne arenaria)	•					
	Reniform Ne	matode <i>(Rotylenchu</i>	lus reniformis)					٠	·.
	OTHER DIS	EASE NOT ON FOR	M (Specify):					<u> </u>	
				·					
	OGICAL RE	SPONSES: (Enter 0	= Not Tested; 1 = Su	sceptible; 2 = Re	sistant)			•	
* 1	iron Chiorosi	s on Calcareous Soil							
	Other <i>(Specif</i>	y)						_	
21. INSECT F	REACTION:	(Enter 0 = Not Teste	ed; 1 = Susceptible; 2	= Resistant)		33 S. J. J. J.	<u> </u>	12:1	<u>. 1991</u>
	** *	ı Beetle <i>(Epilachna va</i>	and the second second		40 F 1	e File	epati la ur		
	100	lopper <i>(Empoasca fal</i>					17.5		
	ther (Specif		, ac,				* - *e		
		to the second			A Commence of the Commence of		er en en en en en e	ta auto	
		1	SELY RESEMBLES T	HAT SUBMITT	ED.				
CHARA			OF VARIETY	СНА	RACTER		NAME OF	VARIETY	
Plant Shape		S27-10			oat Luster	·	S27-10		
Leaf Shape Leaf Color	<u>. </u>	Preston		Seed Si			Century	84	
Leaf Size		\$1492		Seed Sh	789 85 370	11.43	Century	84	
to decive in	- 1570 (1970) - 1970 (1970)	Preston			g Pigmentation		S1492	* * **********************************	
		I							7 .

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT CI	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
				CM Width	CM Length	% Protein	% Oil	SEEDS	POD
Submitted	120	1.6	84	5.8	11.5	43.6	19.9	18.3	2-3
Century 84 Name of Similar Variety	120	1.8	94	6.7	11.5	44.2	18.0	18.0	2-3

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzeli. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A₂ in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

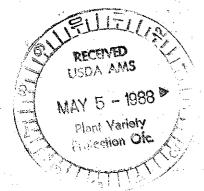


EXHIBIT D

Additional Description of the Variety

Soybean variety S26-06 is a mid Maturity Group II cultivar maturing two days earlier than Preston. It exhibits long hypocotyl reaction when grown in 11 centimeters of sand at 25° centigrade.

EXHIBIT E

Statement of the Basis of Applicant's Ownership

Soybean variety S26-06 was developed by the Northrup King Company soybean breeding staff from germplasm sources cited in Exhibit A of this application.

Northrup King Company believes that the variety is novel as defined in the Plant Variety Protection Act and, therefore, that Northrup King is the sole owner of the variety.